

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2018 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD1001</b>	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
<b>Reclamation District No. 1001 Nicolaus</b>	<b>M *</b>	<b>43.74</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.05		0.05	0.11%	0.08	0.09		
Trim / Thin Trees	0.06		0.06	0.14%				
Encroachments	0.03		0.03	0.07%	3.05	0.17		
Animal Control	0.01		0.01	0.02%				
Slope Stability	0.09		0.09	0.21%				
Erosion / Bank Caving	0.01		0.01	0.02%				
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT	1.21	0.41	2.85	6.52%				
DWR UCIP Field Study					0.24	0.02		
DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	1.46	0.41	3.10	7.09% *	3.37	0.28	0.00	0.00
<b>Unit No. 01 Yankee Slough RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD1001</b>	<b>A</b>	<b>4.12</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.06	0.01		
Encroachments					0.08	0.05		
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.15	0.06	0.00	0.00
<b>Unit No. 02 Yankee Slough LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD1001</b>	<b>A</b>	<b>3.65</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.01	0.01		
Encroachments					0.34	0.01		
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT	0.03		0.03	0.82%				
DWR UCIP Field Study					0.02			
DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.03	0.00	0.03	0.82%	0.37	0.02	0.00	0.00

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**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin (cont.)**

Unit No. 03 Bear River LB		Overall Unit Rating	Total Unit Miles						
RD1001		<b>A</b>	<b>12.58</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.05		0.05	0.40%					
Trim / Thin Trees	0.02		0.02	0.16%					
Encroachments					1.72	0.01			
Slope Stability	0.02		0.02	0.16%					
Erosion / Bank Caving	0.01		0.01	0.08%					
<i>Supplemental</i>									
2017 USACE Erosion Survey, DRAFT	0.12		0.12	0.95%					
DWR UCIP Field Study					0.03				
<i>Unit Totals:</i>	0.22	0.00	0.22	1.75%	1.75	0.01	0.00	0.00	

Unit No. 04 Feather River LB		Overall Unit Rating	Total Unit Miles						
RD1001		<b>M</b>	<b>13.27</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation					0.01	0.07			
Trim / Thin Trees	0.03		0.03	0.23%					
Encroachments	0.02		0.02	0.15%	0.13	0.01			
Animal Control	0.01		0.01	0.08%					
Slope Stability	0.07		0.07	0.53%					
<i>Supplemental</i>									
2017 USACE Erosion Survey, DRAFT	0.41	0.41	2.05	15.44%					
DWR UCIP Field Study					0.07				
<i>Unit Totals:</i>	0.54	0.41	2.18	16.42%	0.21	0.08	0.00	0.00	

Unit No. 05 Natomas Cross Canal RB		Overall Unit Rating	Total Unit Miles						
RD1001		<b>M</b>	<b>5.39</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments					0.28				
<i>Supplemental</i>									
2017 USACE Erosion Survey, DRAFT	0.65		0.65	12.06%					
DWR UCIP Field Study					0.04				
<i>Unit Totals:</i>	0.65	0.00	0.65	12.06%	0.32	0.00	0.00	0.00	

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2018 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin (cont.)**

Unit No. 06 East Side Canal RB		Overall Unit Rating	Total Unit Miles						
RD1001		A	4.74						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Trim / Thin Trees	0.01		0.01	0.21%					
Encroachments	0.01		0.01	0.21%	0.50	0.09			
Supplemental									
DWR UCIP Field Study					0.07	0.02			
Unit Totals:	0.02	0.00	0.02	0.42%	0.57	0.11	0.00	0.00	

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2018 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

\* Overall LMA Threshold Percent is less than  
10.00%; however, U Rated Miles are present,  
so the Overall LMA Rating is M instead of A.

†	<p><b>SPRING INSPECTIONS:</b> Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.</p> <p><b>FALL INSPECTIONS:</b> The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.</p>
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Comments




**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 01 Yankee Slough			Right	4.12
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/3/2018 - 4/3/2018		10/9/2018 - 10/9/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1001_01_s_2012_1				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies on hand at their district office.					

No Photos

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD1001_01_s_2012_2				
Comment Code					
Inspector Comment					
The LMA participates in the flood fight class put on by RD784 and DWR annually.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD1001_01_s_2012_3				
Comment Code					
Inspector Comment					
The LMA has a copy of the O&M manuals at the district office.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 1001 Nicolaus

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	0.40	Rating **	C	Issue No.	9
LM End	0.40	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.975966 °	38.975966 °
				-121.475003 °	-121.475003 °
DWR ID	DWR_RD1001_01_f_2013_9				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's have been burned, Fall 2018.					

No Photos

LM Start	0.42	Rating **	M	Issue No.	16
LM End	0.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.975782 °	38.975782 °
				-121.475321 °	-121.475321 °
DWR ID	DWR_RD1001_01_s_2015_16				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_16\_20180918\_00010.jpg



View lookinf upstream at concrete debris on landside slope.

LM Start	0.47	Rating **	C	Issue No.	17
LM End	0.47	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.975466 °	38.975466 °
				-121.476079 °	-121.476079 °
DWR ID	DWR_RD1001_01_s_2018_17				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's and debris off levee toe have been burned, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	0.51	Rating **	M	Issue No.	27
LM End	0.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.975308 °	38.975308 °
				-121.476731 °	-121.476731 °
DWR ID	DWR_RD1001_01_s_2017_27				
Comment Code					
PR : Prunings					
Inspector Comment					
Debris/pruning's at landside levee toe.					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_27\_20180918\_00017.jpg



View of debris/pruning's at landside levee toe, Spring 2017.

LM Start	0.95	Rating **	M	Issue No.	15
LM End	0.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.974569 °	38.974569 °
				-121.484815 °	-121.484815 °
DWR ID	DWR_RD1001_01_s_2012_15				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping needs to be removed from levee toe.					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_15\_20180918\_00009.jpg



View of the landscaping on the landside levee slope, Fall 2017.

LM Start	0.98	Rating **	M	Issue No.	18
LM End	0.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974284 °	38.974284 °
				-121.485362 °	-121.485362 °
DWR ID	DWR_RD1001_01_f_2018_18				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's need to be removed off the levee toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	1.29	Rating **	U	Issue No.	7
LM End	1.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.972655 °	38.972655 °
				-121.490643 °	-121.490643 °
DWR ID	DWR_RD1001_01_f_2014_7				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's need to be removed off the levee toe.					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_7\_20180918\_00005.jpg



This photo was taken of the landside looking upstream at prunings stacked up at the levee toe.

LM Start	1.53	Rating **	M	Issue No.	28
LM End	1.53	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.970622 °	38.970622 °
				-121.494171 °	-121.494171 °
DWR ID	22526				
Comment Code					
Inspector Comment					
FS_ID:42016 DS_ID:22526 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/22/2013 Dense vegetation should be removed. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch standpipe and service pole at the lanside (LS) toe. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/22/2013					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 1001 Nicolaus



## Reclamation District No. 1001 Nicolaus

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	3.12	Rating **	M	Issue No.	5 (cont)	
LM End	3.17	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.965663 °		38.965705 °
				-121.521023 °		-121.522098 °
DWR ID	DWR_RD1001_01_s_2012_5					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 2 of 2 : FA\_2018\_RD1001\_36\_5\_20180918\_00003.jpg



View of landscaping on landside slope.

LM Start	3.13	Rating **	M	Issue No.	20
LM End	3.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965663 °	38.965672 °
				-121.521267 °	-121.521919 °
DWR ID	DWR_RD1001_01_f_2016_20				
Comment Code					
FE : Fence					
Inspector Comment					
Land owner has installed an unpermitted fence on the landside levee slope.					

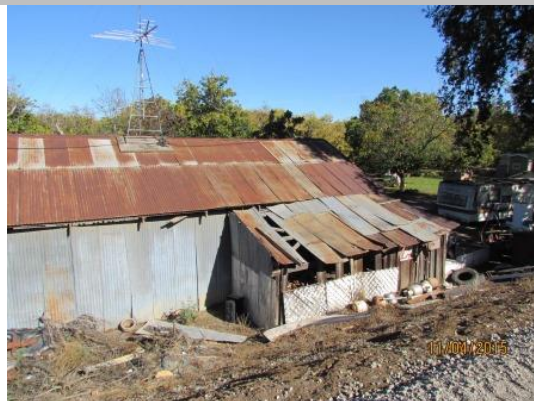
Photo 1 of 1 : FA\_2018\_RD1001\_36\_20\_20180918\_00014.jpg



View of a fence on the landside levee slope looking upstream.

LM Start	3.19	Rating **	U	Issue No.	8
LM End	3.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965694 °	38.965694 °
				-121.522424 °	-121.522424 °
DWR ID	DWR_RD1001_01_f_2015_8				
Comment Code					
BU : Building					
Inspector Comment					
Remove debris and building to allow visibility and access to landside levee toe.					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_8\_20180918\_00006.jpg



View of the shed at the landside levee toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	3.21	Rating **	U	Issue No.	4
LM End	3.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.965699 °	38.965699 °
				-121.522790 °	-121.522790 °
DWR ID	DWR_RD1001_01_f_2015_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_4\_20180918\_00001.jpg



View of the landscaping at the landside levee toe.

LM Start	3.31	Rating **	C	Issue No.	13
LM End	3.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965542 °	38.965542 °
				-121.524624 °	-121.524624 °
DWR ID	DWR_RD1001_01_f_2018_13				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's at this location have been burned, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 02 Yankee Slough			Left	3.65
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/3/2018 - 4/3/2018		10/9/2018 - 10/9/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	7
LM End	3.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971221°	38.965811°
				-121.474027°	-121.533591°
DWR ID	DWR_RD1001_02_f_2018_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_35\_7\_20181113\_00028.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971222°	38.965811°
				-121.474028°	-121.533591°
DWR ID	DWR_RD1001_02_f_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_35\_8\_20181113\_00029.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	0.24	Rating **	M	Issue No.	53	
LM End	0.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.974103°	38.974103°	
				-121.475948°	-121.475948°	
DWR ID	22536					
Comment Code						
Inspector Comment						
FS_ID:41673 DS_ID:22536 EP_NO: 5562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 Pipe appears abandoned and if so should be done so properly. WS pipe plugged with stopper. Seems abandoned. Only abandoned pump base found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 6-inch coated steel irrigation pipe through the levee, 3.5 feet below the crown. Metal cutoff collar placed on the pipe at the center of the levee crown. Pump was removed. Pump base on the waterside (WS) berm. Shutoff valve on the discharge side of the pump. Foot valve below water on the intake side of the pump. Siphon breaker on the landside (LS) shoulder. Pipe discharges into underground irrigation system on the LS. Power pole and meter box, 10 feet from the landward toe. 1.5-inch flexible conduit through levee, 3.5 feet below the crown. (Pump and irrigation pipe authorized under Permit No. 5562, 1966 - Samuel B. Single). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/23/2013						

LM Start	<b>0.24</b>	Rating **	M	Issue No.	<b>53 (cont)</b>
LM End	<b>0.24</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_41673\_22745.jpg



Levee Crown: dense vegetation on levee crown and sides.

Photo 2 of 3 : UCIP\_FA\_2018\_41673\_22744.jpg



WS- plugged pipe and pump base.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	0.24	Rating **	M	Issue No.	53 (cont)	
LM End	0.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.974103°	38.974103°	
				-121.475948°	-121.475948°	
DWR ID	22536					
Comment Code						
Inspector Comment						
FS_ID:41673 DS_ID:22536 EP_NO: 5562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 Pipe appears abandoned and if so should be done so properly. WS pipe plugged with stopper. Seems abandoned. Only abandoned pump base found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 6-inch coated steel irrigation pipe through the levee, 3.5 feet below the crown. Metal cutoff collar placed on the pipe at the center of the levee crown. Pump was removed. Pump base on the waterside (WS) berm. Shutoff valve on the discharge side of the pump. Foot valve below water on the intake side of the pump. Siphon breaker on the landside (LS) shoulder. Pipe discharges into underground irrigation system on the LS. Power pole and meter box, 10 feet from the landward toe. 1.5-inch flexible conduit through levee, 3.5 feet below the crown. (Pump and irrigation pipe authorized under Permit No. 5562, 1966 - Samuel B. Single). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/23/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_41673\_22743.jpg



LS- only pipe air vent found on levee slope.

LM Start	0.32	Rating **	C	Issue No.	14
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.974542°	38.974542°
				-121.477438°	-121.477438°
DWR ID	DWR_RD1001_02_s_2018_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree has its limbs trimmed for access and visibility, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	0.47	Rating **	M	Issue No.	54	
LM End	0.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.974329 °	38.974329 °	
				-121.480043 °	-121.480043 °	
DWR ID	22529					
Comment Code						
Inspector Comment						
FS_ID:50740 DS_ID:22529 EP_NO: 2281 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR) FIELD_STRUCT_DESC: *REMOVED* 7-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS). Steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Pump and irrigation pipe authorized under Permit No. 2281, 1956 - Willard R. Brown). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 7/13/2016						

LM Start	<b>0.47</b>	Rating **	M	Issue No.	<b>54 (cont)</b>
LM End	<b>0.47</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_50740\_22753.jpg



WS- end of the pipe.

Photo 2 of 3 : UCIP\_FA\_2018\_50740\_22752.jpg



WS- seems abandoned or not been used for some time.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	0.47	Rating **	M	Issue No.	54 (cont)	
LM End	0.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.974329 °	38.974329 °	
				-121.480043 °	-121.480043 °	
DWR ID	22529					
Comment Code						
Inspector Comment						
FS_ID:50740 DS_ID:22529 EP_NO: 2281 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR) FIELD_STRUCT_DESC: *REMOVED* 7-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS). Steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Pump and irrigation pipe authorized under Permit No. 2281, 1956 - Willard R. Brown). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 7/13/2016						

Photo 3 of 3 : UCIP\_FA\_2018\_50740\_22751.jpg



WS- due to water leak, soil around pipe eroded.

LM Start	0.53	Rating **	M	Issue No.	19
LM End	0.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974371 °	38.974371 °
				-121.481223 °	-121.481223 °
DWR ID	DWR_RD1001_02_f_2016_19				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					
Remove boat parked at the landside levee toe, Fall 2018.					

Photo 1 of 2 : FA\_2018\_RD1001\_35\_19\_20181113\_00030.jpg



View of a boat at the landside levee toe. Fall 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 1001 Nicolaus

View of a boat at the landside levee toe. Fall 2017.

View looking downstream landside, equipment has been moved but fuel tank remains.

View of the landscaping at the landside levee toe.

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# Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	1.33	Rating **	M	Issue No.	4
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.969740 °	38.969640 °
				-121.494327 °	-121.494829 °
DWR ID	DWR_RD1001_02_f_2018_4				
Comment Code					
Inspector Comment					
2017 Site ID: YAS 1.7 L					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth.					

No Photos

LM Start	1.47	Rating **	C	Issue No.	15
LM End	1.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.969838 °	38.970226 °
				-121.496964 °	-121.501092 °
DWR ID	DWR_RD1001_02_s_2018_15				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Orchard trees that have been cut down have been removed, Fall 2018.					

No Photos

LM Start	1.70	Rating **	M	Issue No.	23
LM End	1.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970260 °	38.970260 °
				-121.501246 °	-121.501246 °
DWR ID	DWR_RD1001_02_f_2016_23				
Comment Code					
TA : Tank					
Inspector Comment					
Two tanks that are at the landside levee toe and should be moved from the easement.					

Photo 1 of 1 : FA\_2018\_RD1001\_35\_23\_20180918\_00015.jpg



View of two tanks that are at the landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 1001 Nicolaus

# Reclamation District No. 1001 Nicolaus

View of large stump at the landside levee toe.

View of large stump at the landside levee toe.

View looking downstream landside at a large stump that needs to be removed.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	2.28	Rating **	M	Issue No.	52
LM End	2.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.967402 °	38.967515 °
				-121.510850 °	-121.515270 °
DWR ID	DWR_RD1001_02_s_2012_52				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_35\_52\_20180918\_00018.jpg



View of landside irrigation ditch looking downstream.

LM Start	2.28	Rating **	M	Issue No.	55
LM End	2.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.967403 °	38.967403 °
				-121.510953 °	-121.510953 °
DWR ID	22543				
Comment Code					
Inspector Comment					
FS_ID:14008 DS_ID:22543 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside - pits on pipe due to corrosion (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 67+75)]. FS Date: 5/23/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_14008\_23108.jpg



WS- overview of waterside of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	2.28	Rating **	M	Issue No.	55 (cont)
LM End	2.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.967403 °	38.967403 °
				-121.510953 °	-121.510953 °
DWR ID	22543				
Comment Code					
Inspector Comment					
FS_ID:14008 DS_ID:22543 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside - pits on pipe due to corrosion (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 67+75)]. FS Date: 5/23/2013					

LM Start	<b>2.28</b>	Rating **	M	Issue No.	<b>55 (cont)</b>
LM End	<b>2.28</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14008\_23107.jpg



WS- outfall pipe with flap gate in concrete wing wall.

Photo 3 of 3 : UCIP\_FA\_2018\_14008\_23106.jpg



LS- slide gate in inlet pipe structure

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	3.58	Rating **	C	Issue No.	24
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			38.965345°	38.965345°
				-121.532615°	-121.532615°
DWR ID	DWR_RD1001_02_f_2016_24				
Comment Code					
Inspector Comment					
Stockpiled flood fight material has been removed. Fall 2018.					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 03 Bear River			Left	12.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/3/2018 - 4/3/2018		10/10/2018 - 10/10/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	0.01	Rating **	A	Issue No.	14
LM End	12.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006570 °	38.941182 °
				-121.375115 °	-121.567543 °
DWR ID	DWR_RD1001_03_f_2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_14\_20181113\_00041.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.01	Rating **	A	Issue No.	15
LM End	12.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006570 °	38.941182 °
				-121.375116 °	-121.567543 °
DWR ID	DWR_RD1001_03_f_2018_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_15\_20181113\_00042.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	0.11	Rating **	C	Issue No.	2
LM End	0.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.006569 °	39.006569 °
				-121.377037 °	-121.377037 °
DWR ID	DWR_RD1001_03_f_2013_2				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Rutting caused by vehicles driving up the landward levee slope has been repaired and no sign of slope damage, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	0.88	Rating **	M	Issue No.	911
LM End	0.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.006508 °	39.006508 °
				-121.391086 °	-121.391086 °
DWR ID	22549				
Comment Code					
Inspector Comment					
FS_ID:14128					
DS_ID:22549					
EP_NO: 958					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 05/21/2013 - slide gate on WS not found- needs abandoned properly. (P. Amatya - DWR UCIP)					
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, at an unknown depth. Slide gate on the waterside (WS) end. (24-inch irrigation pipe authorized under Permit No. 958, 1944 - Frank B. Lichty and Maggie Lichty).					
FS Date: 5/21/2013					

LM Start	<b>0.88</b>	Rating **	M	Issue No.	<b>911 (cont)</b>
LM End	<b>0.88</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_14128\_23308.jpg



WS- abandoned CMP on berm of the levee.

Photo 2 of 3 : UCIP\_FA\_2018\_14128\_23307.jpg



WS- abandoned CMP and depression around it.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	0.88	Rating **	M	Issue No.	911 (cont)	
LM End	0.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.006508 °	39.006508 °	
				-121.391086 °	-121.391086 °	
DWR ID	22549					
Comment Code						
Inspector Comment						
FS_ID:14128						
DS_ID:22549						
EP_NO: 958						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/21/2013 - slide gate on WS not found- needs abandoned properly. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, at an unknown depth. Slide gate on the waterside (WS) end. (24-inch irrigation pipe authorized under Permit No. 958, 1944 - Frank B. Lichty and Maggie Lichty).						
FS Date: 5/21/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_14128\_23309.jpg



LS- no pipe or structure found on landside.

LM Start	1.16	Rating **	M	Issue No.	3
LM End	1.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.005730 °	38.999534 °
				-121.396111 °	-121.404395 °
DWR ID	DWR_RD1001_03_s_2012_3				
Comment Code					
PO : Pole					
Inspector Comment					
Unpermitted Power Poles on the crown along waterside shoulder.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_3\_20180918\_00002.jpg



View of Power Poles along waterside shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 1001 Nicolaus

LM Start	<b>1.85</b>	Rating **	M	Issue No.	<b>912 (cont)</b>
LM End	<b>1.85</b>	Issue Type +	En	Location *	



WS- steel walkway, CMP and concrete headwall



WS- CMP standpipe, pipes and concrete headwall.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	1.85	Rating **	M	Issue No.	912 (cont)	
LM End	1.85	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.998780 °	38.998780 °	
				-121.405322 °	-121.405322 °	
DWR ID	22561					
Comment Code						
Inspector Comment						
FS_ID:41727						
DS_ID:22561						
EP_NO: 4505						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/21/2013 Two small steel pipes sleeved through 30-inch CMP may be a compliance issue as slidegate cannot close.- this may have been converted into drainage pipe (?) - big CMP standpipe on WS. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 30-inch concrete encased corrugated metal irrigation pipe through the levee, 11 feet below the crown. Concrete headwall and slide gate at the waterside (WS) toe, removed. Metal walkway on the WS to the slide gate. Pipe discharges into a 48-inch concrete standpipe at the landside (LS) toe. Two vertical pumps. (30-inch concrete encased corrugated metal irrigation pipe authorized under Permit No. 4505, 1964 - State of California, Department of Public Works, Division of Highways). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 949+00), 30-inch steel pipe referenced].						
FS Date: 5/21/2013						

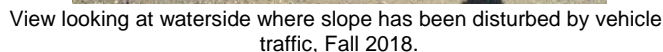
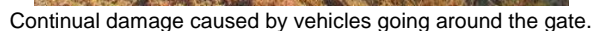
WS- two steel pipes are sleeved through 30-inch CMP.

LM Start	1.87	Rating **	M	Issue No.	28
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.998608 °	38.998608 °
				-121.405570 °	-121.405570 °
DWR ID	DWR_RD1001_03_s_2013_28				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Continual damage to waterside slope caused by vehicles, suggest blocking access.					

Continual damage to waterside slope caused by vehicles.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

# Reclamation District No. 1001 Nicolaus





**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	2.59	Rating **	M	Issue No.	913
LM End	2.59	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.995584 °	38.995584 °
				-121.417982 °	-121.417982 °
DWR ID	22562				
Comment Code					
Inspector Comment					
FS_ID:41722 DS_ID:22562 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/21/2013 Verify pipe has been abandoned properly.- pump mounted on the riverbank not found, - butterfly valve in a 30-inch concrete riser at the waterward toe not found,- concrete box on landside not found- a big tree inside concrete standpipe on landside found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 22-inch steel pipe through the levee, 18.3 feet below the crown. Pump mounted on the riverbank. Butterfly valve in a 30-inch concrete riser at the waterside (WS) toe. Pipe discharges into a concrete box and concrete standpipe on the landside (LS). Steel plate bolted to the WS end of the pipe during the winter months. (California Packing Corporation). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/21/2013					

LM Start	<b>2.59</b>	Rating **	M	Issue No.	<b>913 (cont)</b>
LM End	<b>2.59</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_41722\_23338.jpg



WS- only a steel pipe found on riverbank.

Photo 2 of 2 : UCIP\_FA\_2018\_41722\_23337.jpg



LS- a big tree inside concrete standpipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	3.03	Rating **	M	Issue No.	54
LM End	3.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.993838 °	38.993838 °
				-121.425829 °	-121.425829 °
DWR ID	DWR_RD1001_03_f_2017_54				
Comment Code					
PO : Pole					
Inspector Comment					
Guy wire in levee slope near crown.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_54\_20180918\_00032.jpg



View looking downstream landside of a guywire into the levee slope.

LM Start	3.46	Rating **	M	Issue No.	17
LM End	3.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.992021 °	38.992021 °
				-121.433448 °	-121.433448 °
DWR ID	DWR_RD1001_03_f _ 2018_17				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_17\_20181113\_00045.jpg



View looking at debris and pruning's on the landside levee slope, Fall 2018.

LM Start	3.52	Rating **	M	Issue No.	906
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991745 °	38.991745 °
				-121.434398 °	-121.434398 °
DWR ID	DWR_RD1001_03_s_2012_906				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	3.57	Rating **	M	Issue No.	21
LM End	3.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.991390 °	38.991390 °
				-121.435268 °	-121.435268 °
DWR ID	DWR_RD1001_03_s_2016_21				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_21\_20180918\_00012.jpg



Erosion on waterside slope still remains as of Fall 2018.

LM Start	3.61	Rating **	M	Issue No.	20
LM End	3.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991230 °	38.991207 °
				-121.435918 °	-121.437433 °
DWR ID	DWR_RD1001_03_f _ 2016_20				
Comment Code					
PO : Pole					
Inspector Comment					
Unpermitted pole line.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_20\_20180918\_00011.jpg



View looking downstream of unpermitted pole.

LM Start	3.78	Rating **	M	Issue No.	18
LM End	3.89	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991220 °	38.991173 °
				-121.439130 °	-121.441249 °
DWR ID	DWR_RD1001_03_f_2018_18				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove stumps from levee toe, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_18\_20181113\_00046.jpg



View looking downstream landside of pushed up stumps at the levee toe, Fall 2018.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	4.01	Rating **	M	Issue No.	7
LM End	4.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991261°	38.991927°
				-121.443444°	-121.447765°
DWR ID	DWR_RD1001_03_s_2012_7				
Comment Code					
MA : Material					
Inspector Comment					
Land owner continues to leave debris and equipment next to levee toe, Spring 2018.					

Photo 1 of 2 : FA\_2018\_RD1001\_37\_7\_20180918\_00004.jpg



Irrigation pipe equipment and plastic cans within the easement of the levee.

LM Start	<b>4.01</b>	Rating **	M	Issue No.	<b>7 (cont)</b>
LM End	<b>4.25</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2018\_RD1001\_37\_7\_20180918\_00005.jpg



Irrigation pipe equipment and plastic cans within the easement of the levee.

LM Start	4.06	Rating **	A/W	Issue No.	24
LM End	4.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991370 °	38.991370 °
				-121.444351 °	-121.444351 °
DWR ID	DWR_RD1001_03_f_2016_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility, Spring 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Reclamation District No. 1001 Nicolaus

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	4.65	Rating **	A/W	Issue No.	58
LM End	4.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991551 °	38.991551 °
				-121.455092 °	-121.455092 °
DWR ID	DWR_RD1001_03_s_2012_58				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility, Spring 2018.					

No Photos

LM Start	4.82	Rating **	A/W	Issue No.	910
LM End	4.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.990773 °	38.990773 °
				-121.458203 °	-121.458203 °
DWR ID	DWR_RD1001_03_s_2012_910				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility, Spring 2018.					

No Photos

LM Start	5.81	Rating **	C	Issue No.	32
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.985882°	38.985882°
				-121.475394°	-121.475394°
DWR ID	DWR_RD1001_03_f_2016_32				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
The small starter trees less than 4" in diameter have been removed, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	6.90	Rating **	C	Issue No.	39
LM End	6.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.983222 °	38.983222 °
				-121.495366 °	-121.495366 °
DWR ID	DWR_RD1001_03_s_2013_39				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's from levee toe have been burned, Fall 2018.					

No Photos

LM Start	7.05	Rating **	C	Issue No.	19
LM End	7.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.982871 °	38.982871 °
				-121.498150 °	-121.498150 °
DWR ID	DWR_RD1001_03_s_2018_19				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's from levee toe have been burned, Fall 2018.					

No Photos

LM Start	7.22	Rating **	M	Issue No.	13
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.982737 °	38.982572 °
				-121.501144 °	-121.502797 °
DWR ID	DWR_RD1001_03_f_2018_13				
Comment Code					
Inspector Comment					
2017 Site ID: BER 5.7 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_13\_20181114\_00013.jpg



USACE 2013 Photo #1

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	9.31	Rating **	A/W	Issue No.	44
LM End	9.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.970576 °	38.970576 °
				-121.533334 °	-121.533334 °
DWR ID	DWR_RD1001_03_f_2016_44				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility.					

No Photos

LM Start	10.13	Rating **	C	Issue No.	31
LM End	10.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.967683 °	38.966864 °
				-121.543595 °	-121.543688 °
DWR ID	DWR_RD1001_03_s_2018_31				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree limbs have been trimmed for access and visibility, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	10.36	Rating **	M	Issue No.	12
LM End	10.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.964583 °	38.964010 °
				-121.544967 °	-121.545228 °
DWR ID	DWR_RD1001_03_f_2018_12				
Comment Code					
Inspector Comment					
2017 Site ID: BER 2.5 L					
Status: Eroding					
2017 Field Notes: Erosion pockets have expanded					
Site History: 2011 - Large section of bank has slumped off. RD has					
flagged and appears to be watching. 2012 - Slopes slightly steeper.					
2013 - Minor new erosion observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_12\_20181114\_00010.jpg



USACE 2013 Photo #1

LM Start	10.49	Rating **	U	Issue No.	11
LM End	10.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.962770 °	38.962770 °
				-121.545741 °	-121.545741 °
DWR ID	DWR_RD1001_03_f_2015_11				
Comment Code					
BU : Building					
Inspector Comment					
Small sheds are at levee toe, Fall 2017.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_11\_20180918\_00008.jpg



View of building at the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	10.53	Rating **	M	Issue No.	37
LM End	10.53	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.962231 °	38.962231 °
				-121.546084 °	-121.546084 °
DWR ID	DWR_RD1001_03_f_2018_37				
Comment Code					
DE : Debris					
Inspector Comment					
Remove debris from levee crown, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_37\_20181113\_00050.jpg



View looking downstream waterside crown of debris that needs to be removed, Fall 2018.

LM Start	11.08	Rating **	A/W	Issue No.	10
LM End	11.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.955070 °	38.954227 °
				-121.549528 °	-121.550592 °
DWR ID	DWR_RD1001_03_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: BER 1.9 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Large slumped sections of bank. 2012 - Slopes slightly steeper.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_10\_20181114\_00007.jpg



USACE 2013 Photo #1

LM Start	11.23	Rating **	M	Issue No.	22
LM End	11.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.953367 °	38.953025 °
				-121.551428 °	-121.551808 °
DWR ID	DWR_RD1001_03_s_2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	12.07	Rating **	C	Issue No.	8
LM End	12.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.947591 °	38.946477 °
				-121.563390 °	-121.564094 °
DWR ID	DWR_RD1001_03_f_2018_8				
Comment Code					
Inspector Comment					
2017 Site ID: BER 0.8 L					
Status: Repaired					
2017 Field Notes: The 2017 floods caused additional damage to the site, however the site was repaired by locals, with a very steep rock riprap slope. The rock slope appears to be less than 1:1, some rock already appears to be failing .					
Site History: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper.					

No Photos

LM Start	12.18	Rating **	M	Issue No.	27
LM End	12.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.946248 °	38.946248 °
				-121.564220 °	-121.564220 °
DWR ID	DWR_RD1001_03_s_2012_27				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 04 Feather River			Left	13.27
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	4/3/2018 - 4/4/2018		10/26/2018 - 10/26/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.12	Rating **	C	Issue No.	31
LM End	0.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.939388°	38.938985°
				-121.567782°	-121.567772°
DWR ID	DWR_RD1001_04_s_2018_31				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Downed tree from levee slope is removed, Fall 2018.					

No Photos

LM Start	0.13	Rating **	C	Issue No.	57
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.939219 °	38.939219 °
				-121.567789 °	-121.567789 °
DWR ID	DWR_RD1001_04_f_2017_57				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wild growth from levee slope, Fall 2017.					

No Photos

LM Start	0.14	Rating **	C	Issue No.	3
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.939029 °	38.939029 °
				-121.567771 °	-121.567771 °
DWR ID	DWR_RD1001_04_s_2017_3				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's from hinge point have been removed, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.17	Rating **	C	Issue No.	46
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.938715 °	38.938715 °
				-121.567768 °	-121.567768 °
DWR ID	DWR_RD1001_04_f_2016_46				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Blackberry bush has been removed from the landside levee slope, Fall 2018.					

No Photos

LM Start	0.18	Rating **	C	Issue No.	63
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.938534 °	38.938534 °
				-121.567729 °	-121.567729 °
DWR ID	DWR_RD1001_04_s_2016_63				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by ATV has been repaired, Fall 2018.					

No Photos

LM Start	0.20	Rating **	C	Issue No.	42
LM End	0.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.938233 °	38.938233 °
				-121.567731 °	-121.567731 °
DWR ID	DWR_RD1001_04_s_2017_42				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove pruning's from fallen tree from both sides of hinge points, Spring 2017.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.37	Rating **	A/W	Issue No.	64
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.935903 °	38.935903 °
				-121.567250 °	-121.567250 °
DWR ID	DWR_RD1001_04_s_2016_64				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Animal trail is not being used and shows no sign of erosion or sloughing. Fall 2017.					

Photo 1 of 2 : FA\_2018\_RD1001\_38\_64\_20181114\_00077.jpg



View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Fall 2018.

LM Start	<b>0.37</b>	Rating **	A/W	Issue No.	<b>64 (cont)</b>
LM End	<b>0.37</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_RD1001\_38\_64\_20180918\_00040.jpg



View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Spring 2017.

LM Start	0.39	Rating **	C	Issue No.	16
LM End	0.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.935519 °	38.935519 °
				-121.567042 °	-121.567042 °
DWR ID	DWR_RD1001_04_f_2015_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by ATV has been repaired, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 1001 Nicolaus



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.55	Rating **	N	Issue No.	60
LM End	0.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.933229 °	38.933229 °
				-121.567097 °	-121.567097 °
DWR ID	DWR_RD1001_04_f_2016_60				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_60\_20180918\_00035.jpg



View of tree stump, waterside crown at gate.

LM Start	0.55	Rating **	N	Issue No.	61
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.933229 °	38.933229 °
				-121.567097 °	-121.567097 °
DWR ID	DWR_RD1001_04_f_2016_61				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_61\_20180918\_00036.jpg



View of tree stump, landside crown at gate.

LM Start	0.57	Rating **	A	Issue No.	54
LM End	12.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.932923 °	38.787132 °
				-121.567105 °	-121.620586 °
DWR ID	DWR_RD1001_04_f_2018_54				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 2 : FA\_2018\_RD1001\_38\_54\_20181114\_00081.jpg



View looking upstream landside LM 11.93 of the well maintained annual vegetation, Fall 2018.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

## Reclamation District No. 1001 Nicolaus



## Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	2.44	Rating **	N	Issue No.	71
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.907466 °	38.907466 °
				-121.575413 °	-121.575413 °
DWR ID	DWR_RD1001_04_f_2018_71				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Stumps should be removed from levee slope, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_71\_20181114\_00084.jpg



View looking landside at stumps from a fallen and removed tree, Fall 2018.

LM Start	2.59	Rating **	M	Issue No.	20
LM End	2.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.905773 °	38.905773 °
				-121.577164 °	-121.577164 °
DWR ID	DWR_RD1001_04_s_2013_20				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_20\_20180918\_00005.jpg



View of Buildings along the toe within the easement of the landside levee.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	2.68	Rating **	M	Issue No.	152	
LM End	2.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.905089 °	38.905089 °	
				-121.578477 °	-121.578477 °	
DWR ID	22568					
Comment Code						
Inspector Comment						
FS_ID:41987						
DS_ID:22568						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: 05/16/2013 Dense vegetation on slopes should be cleared. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 4-inch steel swimming pool drainage pipe through the levee, 3 feet below the crown. Open on the waterside (WS) end. Swimming pool on the landside (LS) toe. (Nate Wise). [Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/16/2013						

Photo 1 of 1 : UCIP\_FA\_2018\_41987\_24126.jpg



LS- only a private swimming pool found.

LM Start	2.70	Rating **	M	Issue No.	32
LM End	2.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.904898 °	38.904898 °
				-121.578829 °	-121.578829 °
DWR ID	DWR_RD1001_04_f_2016_32				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_32\_20180918\_00014.jpg



View of shed at landside levee toe in the easement.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	3.16	Rating **	M	Issue No.	48
LM End	3.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.899835 °	38.899499 °
				-121.583986 °	-121.584462 °
DWR ID	DWR_RD1001_04_s_2017_48				
Comment Code					
FE : Fence					
Inspector Comment					
Fence and landscaping has been placed by the land owner and still exist on levee slope and needs to be removed, Fall 2018.					

Photo 1 of 2 : FA\_2018\_RD1001\_38\_48\_20180918\_00028.jpg



View looking downstream landside of fence and landscaping that has been placed by the land owner on levee slope and needs to be removed, Spring 2018.

LM Start	<b>3.16</b>	Rating **	M	Issue No.	<b>48 (cont)</b>
LM End	<b>3.19</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2018\_RD1001\_38\_48\_20180918\_00029.jpg



View looking downstream of fence and landscaping that has been placed by the land owner on levee slope and needs to be removed, Fall 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	4.06	Rating **	M	Issue No.	51
LM End	4.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.892820 °	38.892583 °
				-121.598003 °	-121.598575 °
DWR ID	DWR_RD1001_04_s_2017_51				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Continual vehicles driving up levee slope should be monitored and maintained, Spring 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_51\_20180918\_00031.jpg



View of continual vehicles driving up levee slope, should be monitored and maintained.

LM Start	4.60	Rating **	M	Issue No.	33
LM End	4.65	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.889127 °	38.888603 °
				-121.606858 °	-121.607713 °
DWR ID	DWR_RD1001_04_f_2018_33				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 7.7 L					
Status: Eroding New					
2017 Field Notes: Erosion along bank appears to be due to rapid drawdown condition. Lower bank cobbles are unraveling. Tree popout at upstream end.					
Site History:					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.55	Rating **	A/W	Issue No.	79
LM End	5.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.877256 °	38.877256 °
				-121.613073 °	-121.613073 °
DWR ID	DWR_RD1001_04_s_2016_79				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	5.61	Rating **	A/W	Issue No.	35
LM End		Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.876374 °	°
				-121.613425 °	°
DWR ID	DWR_RD1001_04_f_2017_35				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:139					
Site Designation:LMA-19					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/6/2017					
Notes: Several small erosion sites along 2 miles.					

Photo 1 of 3 : LEVAL\_FA\_2018\_139\_1148.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 1001 Nicolaus

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.71	Rating **	M	Issue No.	27
LM End	5.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.874984 °	38.874984 °
				-121.614242 °	-121.614242 °
DWR ID	DWR_RD1001_04_s_2015_27				
Comment Code					
PO : Pole					
Inspector Comment					
Remove pole on levee slope, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_27\_20180918\_00009.jpg



View of pole on landside, no lines connected to it.

LM Start	5.78	Rating **	M	Issue No.	153	
LM End	5.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.874113 °	38.874113 °	
				-121.614846 °	-121.614846 °	
DWR ID	22573					
Comment Code						
Inspector Comment						
FS_ID:14604 DS_ID:22573 EP_NO: 10389 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *REPLACEMENT* 12-inch irrigation discharge pipe of an unknown material through the levee, 10 feet below the crown. 30-horsepower slant pump on the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe at the LS toe. Pipe installed by USACE in 1963. Switch panel and service pole at the LS toe. (Replacement of a 12-inch pipe and a 30-horsepower slant pump authorized under Permit No. 10389, 1974 - Pluma Orchards). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/16/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_14604\_24107.jpg



WS- slanted pump station on steel platform on levee berm.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.78	Rating **	M	Issue No.	153 (cont)	
LM End	5.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.874113 °	38.874113 °	
				-121.614846 °	-121.614846 °	
DWR ID	22573					
Comment Code						
Inspector Comment						
FS_ID:14604 DS_ID:22573 EP_NO: 10389 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *REPLACEMENT* 12-inch irrigation discharge pipe of an unknown material through the levee, 10 feet below the crown. 30-horsepower slant pump on the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe at the LS toe. Pipe installed by USACE in 1963. Switch panel and service pole at the LS toe. (Replacement of a 12-inch pipe and a 30-horsepower slant pump authorized under Permit No. 10389, 1974 - Pluma Orchards). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/16/2013						

LM Start	<b>5.78</b>	Rating **	M	Issue No.	<b>153 (cont)</b>
LM End	<b>5.78</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14604\_24106.jpg



WS- inlet pipe on the river bank.

Photo 3 of 3 : UCIP\_FA\_2018\_14604\_24105.jpg



Enter photo 3 description or comment here.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.80	Rating **	A/W	Issue No.	28
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.874113 °	38.872373 °
				-121.615380 °	-121.616504 °
DWR ID	DWR_RD1001_04_f_2018_28				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 6.6 L					
Status: Eroding					
2017 Field Notes: Sandy bank slope is unraveling.					
Site History: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallop from tree popouts no longer visible on site. Minor new erosion at the middle of the bank.					
2015 - Fres erosion from human usage.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_28\_20181114\_00037.jpg



USACE 2013 Photo #1

LM Start	6.39	Rating **	U	Issue No.	17
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.866032 °	38.865195 °
				-121.619489 °	-121.620017 °
DWR ID	DWR_RD1001_04_s_2012_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Home owners landscaping should be removed, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_17\_20180918\_00003.jpg



View of landscaping on the landside shoulder and slope looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	6.42	Rating **	U	Issue No.	18
LM End	6.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.865875 °	38.864706 °
				-121.619983 °	-121.620813 °
DWR ID	DWR_RD1001_04_f_2018_18				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 6.0 L					
Status: Critical					
2017 Field Notes: Upgraded to critical, entire bank slope is slumping, with near vertical face					
Site History: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2016 - Recent large slope failure observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_18\_20181114\_00032.jpg



USACE 2013 Photo #1

LM Start	6.57	Rating **	A/W	Issue No.	15
LM End	6.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.863946 °	38.861558 °
				-121.621388 °	-121.623316 °
DWR ID	DWR_RD1001_04_f_2018_15				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 5.8 L					
Status: Eroding					
2017 Field Notes: slope is not stable enough to maintain vegetation growth, new erosion					
Site History: 2011 - Large slumped sections on the lower bank. 2012 - New cracks observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_15\_20181114\_00030.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	7.06	Rating **	M	Issue No.	40
LM End	7.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.857797 °	38.857797 °
				-121.625912 °	-121.625912 °
DWR ID	DWR_RD1001_04_s_2018_40				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair tire ruts on levee slope.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_40\_20180918\_00021.jpg



View looking downstream waterside at deep tire ruts in levee slope.

LM Start	7.08	Rating **	A/W	Issue No.	52
LM End	7.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.857574 °	38.857574 °
				-121.626083 °	-121.626083 °
DWR ID	DWR_RD1001_04_s_2017_52				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	7.32	Rating **	C	Issue No.	45
LM End	7.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.854324 °	38.854324 °
				-121.627970 °	-121.627970 °
DWR ID	DWR_RD1001_04_s_2018_45				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Limbs are trimmed for access and visibility, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	<b>7.47</b>	Rating **	U	Issue No.	<b>14</b>
LM End	<b>7.79</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey, DRAFT		38.852394 °	38.848004 °	
			-121.629231 °	-121.630873 °	
DWR ID	DWR_RD1001_04_f_2018_14				

**Comment Code**

**Inspector Comment**

2017 Site ID: FHR 5.0 L  
Status: Critical  
2017 Field Notes: Upgraded to critical, significant new erosion, entire bank slope is vertical with non cohesive soils.  
Site History: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank.

Photo 1 of 1 : FA\_2018\_RD1001\_38\_14\_20181114\_00013.jpg



USACE 2013 Photo #1

LM Start	<b>7.60</b>	Rating **	A/W	Issue No.	<b>36</b>
LM End	<b>7.60</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.850521 °	38.850521 °	
			-121.629423 °	-121.629423 °	
DWR ID	DWR_RD1001_04_f_2015_36				

**Comment Code**

E2 : Schedule repair of erosion site prior to the next inspection.

**Inspector Comment**

Ramp has vertical cut into the levee prism.

Photo 1 of 1 : FA\_2018\_RD1001\_38\_36\_20180918\_00019.jpg



View of vertical cut for ramp in the landside levee slope looking upstream.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

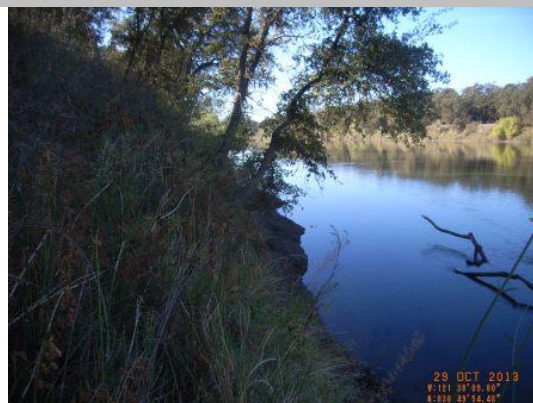
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	8.48	Rating **	A/W	Issue No.	38	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.838000 °		°
				-121.633051 °		°
DWR ID	DWR_RD1001_04_f_2017_38					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:140						
Site Designation:LMA-20						
Repair Type: Seepage						
Rating:Serious						
Field Date:8/31/2017						
Notes: Was recommended to receive additional rock during flood fight by Wilbur Huang but resources weren't available at the time. 4 seepage berms were installed during the storms, but more are needed between them						

No Photos

LM Start	8.57	Rating **	A/W	Issue No.	13
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.836966 °	38.831498 °
				-121.634128 °	-121.636371 °
DWR ID	DWR_RD1001_04_f _ 2018_13				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 3.8 L					
Status: Eroding					
2017 Field Notes: New erosion along lower slope					
Site History: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_13\_20181114\_00012.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	8.65	Rating **	A/W	Issue No.	12
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.835766 °	38.834778 °
				-121.633966 °	-121.634316 °
DWR ID	DWR_RD1001_04_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	9.15	Rating **	M	Issue No.	154	
LM End	9.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.828893 °	38.828893 °	
				-121.637219 °	-121.637219 °	
DWR ID	22577					
Comment Code						
Inspector Comment						
FS_ID:14563 DS_ID:22577 EP_NO: 12828 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - needs detailed investigation for road surface cracks (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation discharge pipe through the levee, 4.3 feet below the crown. 30-horsepower slant pump and platform on the riverbank. (16-inch irrigation discharge pipe and 30-horsepower slant pump authorized under Permit No. 12828, 1979. It is assumed that this 16-inch pipe replaces the abandoned 10-inch steel pipe referenced in the O&M Manual). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.3), abandoned 10-inch steel pipe referenced]. FS Date: 5/16/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_14563\_24002.jpg



WS- slanted pipe in steel structure on river bank.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

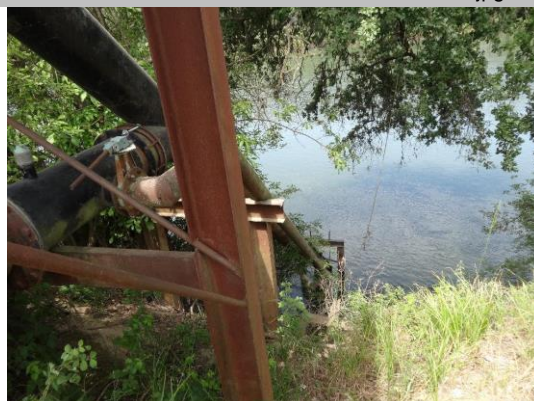
**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	9.15	Rating **	M	Issue No.	154 (cont)	
LM End	9.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.828893 °	38.828893 °	
				-121.637219 °	-121.637219 °	
DWR ID	22577					
Comment Code						
Inspector Comment						
FS_ID:14563 DS_ID:22577 EP_NO: 12828 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - needs detailed investigation for road surface cracks (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation discharge pipe through the levee, 4.3 feet below the crown. 30-horsepower slant pump and platform on the riverbank. (16-inch irrigation discharge pipe and 30-horsepower slant pump authorized under Permit No. 12828, 1979. It is assumed that this 16-inch pipe replaces the abandoned 10-inch steel pipe referenced in the O&M Manual). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.3), abandoned 10-inch steel pipe referenced]. FS Date: 5/16/2013						

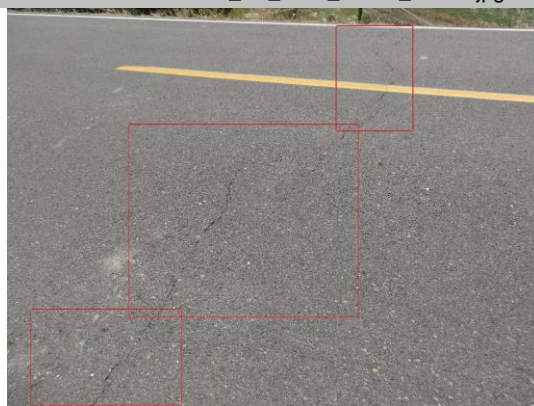
LM Start	<b>9.15</b>	Rating **	M	Issue No.	<b>154 (cont)</b>
LM End	<b>9.15</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14563\_24001.jpg



WS- inlet pipe and main pipe in pump station on river bank.

Photo 3 of 3 : UCIP\_FA\_2018\_14563\_24000.jpg



Levee Crown- road surface cracks along the pipe. Needs more investigation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	<b>9.41</b>	Rating **	A/W	Issue No.	<b>43</b>
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.825391 °	°
				-121.639144 °	°
DWR ID	DWR_RD1001_04_f_2017_43				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:163					
Site Designation:247-2					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	<b>9.44</b>	Rating **	M	Issue No.	<b>155</b>
LM End	<b>9.44</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.825107 °	38.825107 °
				-121.639369 °	-121.639369 °
DWR ID	22592				
Comment Code					
Inspector Comment					
FS_ID:14544					
DS_ID:22592					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 05/16/2013 - seems abandoned pipe crossing.-					
needs properly abandoned.- a 48" steel tank not found on landside.					
(P. Amatya - DWR UCIP)					
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through					
the levee, 5 feet below the crown. Pump on the riverbank. Pipe					
discharges into a 48-inch steel tank at the landside (LS) toe.					
(Johnston). [Additional Reference(s): DWR Levee Log, 1993. USACE					
Sacramento O&M Manual 141.1, August 1955, (RM 3.1)].					
FS Date: 5/16/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_14544\_23966.jpg



WS- damaged pipe with holes, cracks on levee slope. River bank is not visible due to dense vegetation (top)

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	9.44	Rating **	M	Issue No.	155 (cont)	
LM End	9.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.825107 °	38.825107 °	
				-121.639369 °	-121.639369 °	
DWR ID	22592					
Comment Code						
Inspector Comment						
FS_ID:14544 DS_ID:22592 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - seems abandoned pipe crossing.- needs properly abandoned.- a 48" steel tank not found on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump on the riverbank. Pipe discharges into a 48-inch steel tank at the landside (LS) toe. (Johnston). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.1)]. FS Date: 5/16/2013						

LM Start	<b>9.44</b>	Rating **	M	Issue No.	<b>155 (cont)</b>
LM End	<b>9.44</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14544\_23965.jpg



WS- abandoned damaged pipe with holes, cracks on levee slope.

Photo 3 of 3 : UCIP\_FA\_2018\_14544\_23964.jpg



LS- overview of landside, steel pipe on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	9.52	Rating **	M	Issue No.	80
LM End	9.52	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.823911 °	38.823911 °
				-121.639869 °	-121.639869 °
DWR ID	DWR_RD1001_04_s_2016_80				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_80\_20180918\_00052.jpg



View of pole on waterside crown.

LM Start	9.58	Rating **	C	Issue No.	82
LM End	9.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.823053 °	38.823053 °
				-121.639911 °	-121.639911 °
DWR ID	DWR_RD1001_04_s_2016_82				
Comment Code					
DE : Debris					
Inspector Comment					
Old fence post pile at landside levee toe has been removed, Fall 2018.					

No Photos

LM Start	9.61	Rating **	M	Issue No.	37
LM End	9.61	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.822725 °	38.822725 °
				-121.640018 °	-121.640018 °
DWR ID	DWR_RD1001_04_f_2015_37				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleanders in front of a house on the waterside need to be removed, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_37\_20180918\_00020.jpg



View looking downstream waterside of landscaping vegetation encroaching onto the levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	9.92	Rating **	M	Issue No.	156	
LM End	9.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.818341 °		38.818341 °
				-121.638890 °		-121.638890 °
DWR ID	22578					
Comment Code						
Inspector Comment						
FS_ID:14627 DS_ID:22578 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - needs properly abandoned.- dismantled standpipe found on LS levee slope (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 24-inch concrete standpipe at the LS toe. (Pipe and pump authorized under Permit No. 3297, 1960 - Albert Linggi). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/16/2013						

LM Start	<b>9.92</b>	Rating **	M	Issue No.	<b>156 (cont)</b>
LM End	<b>9.92</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_14627\_24134.jpg



WS- exposed pipe on levee slope and pump station in river bank.

Photo 2 of 3 : UCIP\_FA\_2018\_14627\_24133.jpg



WS- exposed pipe on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	9.92	Rating **	M	Issue No.	156 (cont)	
LM End	9.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.818341 °		38.818341 °
				-121.638890 °		-121.638890 °
DWR ID	22578					
Comment Code						
Inspector Comment						
FS_ID:14627 DS_ID:22578 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - needs properly abandoned.- dismantled standpipe found on LS levee slope (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 24-inch concrete standpipe at the LS toe. (Pipe and pump authorized under Permit No. 3297, 1960 - Albert Linggi). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/16/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_14627\_24132.jpg



WS- abandoned slanted pump station in steel pipe structure in river bank.

LM Start	9.97	Rating **	M	Issue No.	66
LM End	9.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.817659 °	38.817659 °
				-121.638404 °	-121.638404 °
DWR ID	DWR_RD1001_04_f_2016_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree pushed up to levee toe needs to be removed, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_66\_20180918\_00043.jpg



View of large tree pushed up to the landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	10.14	Rating **	M	Issue No.	157	
LM End	10.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.815530 °	38.815530 °	
				-121.636918 °	-121.636918 °	
DWR ID	22572					
Comment Code						
Inspector Comment						
FS_ID:41723						
DS_ID:22572						
EP_NO: 1881						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/16/2013 - burried slide gate found on WS slope.- concrete box at the landward toe not found. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Slant pump mounted on a pile structure on the riverbank. Gate valve on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a concrete box at the LS toe. (18-inch steel discharge pipe and slant pump authorized under Permit No. 1881, 1954 - L. G. Kipp and R. B. Reith). [Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/16/2013						

LM Start	<b>10.14</b>	Rating **	M	Issue No.	<b>157 (cont)</b>
LM End	<b>10.14</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_41723\_23977.jpg



WS- slant pump on steel structure in river bank.

Photo 2 of 3 : UCIP\_FA\_2018\_41723\_23976.jpg



WS- main steel pipe on levee surface (without paint).

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	10.14	Rating **	M	Issue No.	157 (cont)	
LM End	10.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.815530 °	38.815530 °	
				-121.636918 °	-121.636918 °	
DWR ID	22572					
Comment Code						
Inspector Comment						
FS_ID:41723						
DS_ID:22572						
EP_NO: 1881						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/16/2013 - burried slide gate found on WS slope.- concrete box at the landward toe not found. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Slant pump mounted on a pile structure on the riverbank. Gate valve on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a concrete box at the LS toe. (18-inch steel discharge pipe and slant pump authorized under Permit No. 1881, 1954 - L. G. Kipp and R. B. Reith). [Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/16/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_41723\_23978.jpg



WS- gate valve on levee slope.

LM Start	10.60	Rating **	M	Issue No.	30
LM End	10.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.809257 °	38.809257 °
				-121.633909 °	-121.633909 °
DWR ID	DWR_RD1001_04_s_2013_30				
Comment Code					
RW : Retaining Wall					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_30\_20180918\_00011.jpg



A retaining wall is within the profile of the slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	10.60	Rating **	M	Issue No.	29
LM End	10.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.809256 °	38.809256 °
				-121.633908 °	-121.633908 °
DWR ID	DWR_RD1001_04_s_2013_29				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_29\_20180918\_00010.jpg



The building is within the easement of the levee.

LM Start	11.05	Rating **	A/W	Issue No.	22
LM End	11.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802875 °	38.802000 °
				-121.632862 °	-121.632763 °
DWR ID	DWR_RD1001_04_s_2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.12	Rating **	A/W	Issue No.	49
LM End	13.19	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.801862 °	38.781706 °
				-121.632702 °	-121.606869 °
DWR ID	DWR_RD1001_04_f_2017_49				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Portions were temporarily repaired by DWR during 2017 flood fight. Permanent repairs are required through entire reach.					
Estimated cost \$14.6 million					
Site ID No: 491					
Site Designation: LMA-329					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	11.18	Rating **	M	Issue No.	10
LM End	11.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.800920°	38.798165°
				-121.633050°	-121.631939°
DWR ID	DWR_RD1001_04_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 1.0 L					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end.					
2007 - Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_10\_20181114\_00007.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 1001 Nicolaus

No Photos

No Photos

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.28	Rating **	M	Issue No.	158	
LM End	11.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.799561 °	38.799561 °	
				-121.631964 °	-121.631964 °	
DWR ID	22580					
Comment Code						
Inspector Comment						
FS_ID:14548 DS_ID:22580 EP_NO: 3489 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alienment. Needs more investigations. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. 40-horsepower slant pump mounted on a steel structure on the riverbank. Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (Pipe and 40-horsepower pump authorized under Permit No. 3489, 1960 - Kirtland Brothers). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/16/2013						

LM Start	<b>11.28</b>	Rating **	M	Issue No.	<b>158 (cont)</b>
LM End	<b>11.28</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_14548\_23970.jpg



WS- slant pump on river bank.

Photo 2 of 3 : UCIP\_FA\_2018\_14548\_23969.jpg



Levee Crown- surface crack along pipe crossing. Needs more investigation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.28	Rating **	M	Issue No.	158 (cont)	
LM End	11.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.799561 °	38.799561 °	
				-121.631964 °	-121.631964 °	
DWR ID	22580					
Comment Code						
Inspector Comment						
FS_ID:14548 DS_ID:22580 EP_NO: 3489 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/16/2013 - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alienment. Needs more investigations. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. 40-horsepower slant pump mounted on a steel structure on the riverbank. Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (Pipe and 40-horsepower pump authorized under Permit No. 3489, 1960 - Kirtland Brothers). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/16/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_14548\_23968.jpg



WS- slant pump, pipe on steel piles.

LM Start	11.59	Rating **	M	Issue No.	9
LM End	11.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.795455 °	38.793394 °
				-121.629903 °	-121.628156 °
DWR ID	DWR_RD1001_04_f _ 2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 0.6 L					
Status: Eroding					
2017 Field Notes: Further toe erosion, with sections of sand deposition.					
Site History: 1997- Deposits over top of cobble on the upper slope.					
2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion.					
2012 - Minor new erosion at toe, new slumping, animals holes and cracks observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_9\_20181114\_00002.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 1001 Nicolaus

No Photos

No Photos

Photo 1 of 1 : FA\_2018\_RD1001\_38\_53\_20181114\_00089.jpg



View looking at landside toe of pruning's on levee toe, Fall 2018.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

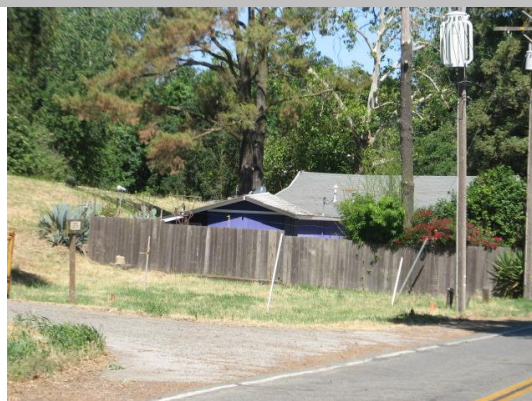
**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	12.48	Rating **	U	Issue No.	25
LM End	12.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.786073 °	38.786073 °
				-121.618522 °	-121.618522 °
DWR ID	DWR_RD1001_04_s_2012_25				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_25\_20180918\_00008.jpg



An unpermitted building is at the toe of the levee.

LM Start	12.65	Rating **	A/W	Issue No.	26
LM End	13.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784513 °	38.781862 °
				-121.616045 °	-121.607855 °
DWR ID	DWR_RD1001_04_s_2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	12.67	Rating **	A/W	Issue No.	11
LM End	13.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784579 °	38.782150 °
				-121.615689 °	-121.607918 °
DWR ID	DWR_RD1001_04_f_2013_11				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	12.82	Rating **	M	Issue No.	151
LM End	12.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.783930 °	38.783930 °
				-121.612952 °	-121.612952 °
DWR ID	DWR_RD1001_04_s_2012_151				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim tree limbs for access and visibility, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_151\_20180918\_00054.jpg



Trees need to be trimmed up at least 5 feet.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 05 Natomas Cross Canal			Right	5.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	4/5/2018 - 4/5/2018		10/9/2018 - 10/9/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

# Reclamation District No. 1001 Nicolaus

View looking upstream landside at the well maintained annual vegetation, Fall 2018.

View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

View of a house and carport that are at the levee toe.

Page 1 of 12



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	0.06	Rating **	M	Issue No.	16
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.781999 °	38.781999 °
				-121.605182 °	-121.605182 °
DWR ID	DWR_RD1001_05_f_2015_16				
Comment Code					
RW : Retaining Wall					
Inspector Comment					
Retaining wall is into the landside levee toe, it is part of the carport.					

No Photos

LM Start	0.79	Rating **	M	Issue No.	17	
LM End	0.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.790556 °	38.790556 °	
				-121.597477 °	-121.597477 °	
DWR ID	22610					
Comment Code						
Inspector Comment						
FS_ID:14393						
DS_ID:22610						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/15/2013 - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 5 of 8: 24-inch reinforced concrete drainage discharge pipe through the levee, 25 feet below the crown. Five 60-inch by 84-inch reinforced concrete drainage tunnels through the levee, 25 feet below the crown. One tunnel has a 60-inch pump installed inside and is gated on the waterside (WS) end. Two 50-inch steel drainage discharge pipes through the levee, 25 feet below the crown. All tunnels and pipes are gated. Concrete headwall and railing along the landside (LS). (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/15/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_14393\_23697.jpg



Location of pipes and tunnels. 24-inch steel pipe located at 5th from the left.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	0.79	Rating **	M	Issue No.	17 (cont)	
LM End	0.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.790556°	38.790556°	
				-121.597477°	-121.597477°	
DWR ID	22610					
Comment Code						
Inspector Comment						
FS_ID:14393 DS_ID:22610 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 5 of 8: 24-inch reinforced concrete drainage discharge pipe through the levee, 25 feet below the crown. Five 60-inch by 84-inch reinforced concrete drainage tunnels through the levee, 25 feet below the crown. One tunnel has a 60-inch pump installed inside and is gated on the waterside (WS) end. Two 50-inch steel drainage discharge pipes through the levee, 25 feet below the crown. All tunnels and pipes are gated. Concrete headwall and railing along the landside (LS). (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

LM Start	<b>0.79</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>0.79</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14393\_23696.jpg



LS- Drainage structure with tunnels, pipes and pump house. Tunnel 1 at far right and tunnel 5 at far left. The pipe is located inside tunnel 3.

Photo 3 of 3 : UCIP\_FA\_2018\_14393\_23799.jpg



WS- three steel pipes inside tunnel. Fifty inch pipes on left and right. Twenty four inch pipe in middle of the structure as shown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	1.78	Rating **	M	Issue No.	5
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.799037 °	38.799733 °
				-121.582706 °	-121.581585 °
DWR ID	DWR_RD1001_05_f_2018_5				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 1.9 L					
Status: Eroding New					
2017 Field Notes: Erosion along mid bank and sections of slumped bank.					
Site History:					

No Photos

LM Start	2.24	Rating **	M	Issue No.	6
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.803327 °	38.804206 °
				-121.575993 °	-121.574529 °
DWR ID	DWR_RD1001_05_f _ 2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 2.4 R					
Status: Eroding					
2017 Field Notes: Site renamed, previously mislabeled as NCC 3.0.					
Erosion along mid bank slope.					
Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.4. 2016 - Site extended downstream. Slumping of entire middle levee section.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	2.31	Rating **	M	Issue No.	11
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.803877 °	38.804206 °
				-121.575053 °	-121.574529 °
DWR ID	DWR_RD1001_05_f_2018_11				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 3.0 R					
Status: Eroding					
2017 Field Notes: Site is part of the extended inventory, last inspected 2011.					
Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5.					

No Photos

LM Start	2.68	Rating **	M	Issue No.	9
LM End	3.13	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.807180 °	38.811122 °
				-121.569523 °	-121.562873 °
DWR ID	DWR_RD1001_05_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 2.9 R					
Status: Eroding New					
2017 Field Notes: Hummocky levee face, slumping upper bank.					
Site History: 2016 - Slumping of upper bank slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	3.56	Rating **	M	Issue No.	7
LM End	3.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.814919 °	38.817178 °
				-121.556712 °	-121.552965 °
DWR ID	DWR_RD1001_05_s_2012_7				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD1001\_39\_7\_20180918\_00001.jpg



View of poles on the landside shoulder looking downstream.

LM Start	3.81	Rating **	M	Issue No.	10
LM End	3.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.817178 °	38.817178 °
				-121.552965 °	-121.552965 °
DWR ID	DWR_RD1001_05_s_2012_10				
Comment Code					
TA : Tank					
Inspector Comment					
Fuel tank at landside levee toe.					

Photo 1 of 1 : FA\_2018\_RD1001\_39\_10\_20180918\_00005.jpg



View of poles on the landside shoulder looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	3.81	Rating **	M	Issue No.	18	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.817175°	38.817175°	
				-121.552946°	-121.552946°	
DWR ID	22604					
Comment Code						
Inspector Comment						
FS_ID:14486						
DS_ID:22604						
EP_NO: 1896						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly adandoned. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: *ABANDONED* 1 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]).						
[Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/15/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_14486\_23913.jpg



WS- pump station, walkway, and slide gate in concrete box.

LM Start	<b>3.81</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>3.81</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14486\_23912.jpg



WS- abandoned pipe adjacent to pump station on stream bank.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	3.81	Rating **	M	Issue No.	18 (cont)	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22604					
Comment Code						
Inspector Comment						
FS_ID:14486						
DS_ID:22604						
EP_NO: 1896						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly adandoned. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: *ABANDONED* 1 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]).						
[Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/15/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_14486\_23911.jpg



WS- slide gate in concrete box on levee toe.

LM Start	3.81	Rating **	M	Issue No.	19	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.817175 °		38.817175 °
				-121.552946 °		-121.552946 °
DWR ID	22595					
Comment Code						
Inspector Comment						
FS_ID:14484 DS_ID:22595 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_14484\_23894.jpg



WS- overview of pump station, walkway, and slide gate in concrete box.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	3.81	Rating **	M	Issue No.	19 (cont)	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22595					
Comment Code						
Inspector Comment						
FS_ID:14484 DS_ID:22595 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

LM Start	<b>3.81</b>	Rating **	M	Issue No.	<b>19 (cont)</b>
LM End	<b>3.81</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14484\_23898.jpg



WS- slide gate in concrete box on levee toe.

Photo 3 of 3 : UCIP\_FA\_2018\_14484\_23897.jpg



LS- overview of irrigation ditch on levee toe (top)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	3.81	Rating **	M	Issue No.	20	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22613					
Comment Code						
Inspector Comment						
FS_ID:14472 DS_ID:22613 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 3 of 3: 30-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

LM Start	<b>3.81</b>	Rating **	M	Issue No.	<b>20 (cont)</b>
LM End	<b>3.81</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_14472\_23891.jpg



WS- pump station, walkway, and slide gate in concrete box on levee toe

Photo 2 of 3 : UCIP\_FA\_2018\_14472\_23890.jpg



WS- slide gate in concrete box on levee toe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	3.81	Rating **	M	Issue No.	20 (cont)	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22613					
Comment Code						
Inspector Comment						
FS_ID:14472 DS_ID:22613 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 3 of 3: 30-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_14472\_23889.jpg



LS- pipes discharge water in irrigation ditch on landside (top)

LM Start	5.05	Rating **	A/W	Issue No.	8
LM End	5.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.828100 °	38.828188 °
				-121.534740 °	-121.534625 °
DWR ID	DWR_RD1001_05_f_2017_8				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:493					
Site Designation:RD 1001-03					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Serious per senior review					

Photo 1 of 3 : LEVAL\_FA\_2018\_493\_1759.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	5.05	Rating **	A/W	Issue No.	8 (cont)	
LM End	5.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.828100 °		38.828188 °
				-121.534740 °		-121.534625 °
DWR ID	DWR_RD1001_05_f_2017_8					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:493						
Site Designation:RD 1001-03						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/17/2017						
Notes: Serious per senior review						

LM Start	<b>5.05</b>	Rating **	A/W	Issue No.	<b>8 (cont)</b>
LM End	<b>5.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_493\_1762.jpg



Photo 3 of 3 : LEVAL\_FA\_2018\_493\_1763.jpg



\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 06 East Side Canal			Right	4.74
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/5/2018 - 4/5/2018		10/9/2018 - 10/9/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	13
LM End	4.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831102°	38.896349°
				-121.529733°	-121.520442°
DWR ID	DWR_RD1001_06_f_2018_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_13\_20181114\_00036.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	14
LM End	4.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831102 °	38.896349 °
				-121.529733 °	-121.520441 °
DWR ID	DWR_RD1001_06_f_2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_14\_20181114\_00037.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	0.02	Rating **	M	Issue No.	20
LM End	0.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.831243 °	38.836832 °
				-121.529519 °	-121.526810 °
DWR ID	DWR_RD1001_06_f_2016_20				
Comment Code					
FE : Fence					
Inspector Comment					
Fence along the landside levee toe.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_20\_20180918\_00006.jpg



View of fence along the landside levee toe looking upstream.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

## Reclamation District No. 1001 Nicolaus

View looking upstream landside where soil has been dumped on the levee toe, Fall 2018.

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# Reclamation District No. 1001 Nicolaus

View looking upstream of the equipment at the landside levee toe.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	1.72	Rating **	M	Issue No.	47
LM End	1.72	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.855186 °	38.855186 °
				-121.524895 °	-121.524895 °
DWR ID	22617				
Comment Code					
Inspector Comment					
FS_ID:14244					
DS_ID:22617					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 05/15/2013 - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended. (P. Amatya - DWR UCIP)					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].					
FS Date: 5/15/2013					

LM Start	<b>1.72</b>	Rating **	M	Issue No.	<b>47 (cont)</b>
LM End	<b>1.72</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_14244\_23467.jpg



WS- slide gate in CMP riser on levee slope.

Photo 2 of 3 : UCIP\_FA\_2018\_14244\_23466.jpg



WS- slide gate, air vent pipe in CMP riser on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	1.72	Rating **	M	Issue No.	47 (cont)	
LM End	1.72	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.855186 °	38.855186 °	
				-121.524895 °	-121.524895 °	
DWR ID	22617					
Comment Code						
Inspector Comment						
FS_ID:14244 DS_ID:22617 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_14244\_23465.jpg



WS- pipe opening visible inside CMP riser.

LM Start	2.03	Rating **	M	Issue No.	48
LM End	2.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.859601 °	38.859601 °
				-121.524885 °	-121.524885 °
DWR ID	22616				
Comment Code					
Inspector Comment					
FS_ID:14223 DS_ID:22616 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - pipe burried/submerged on LS- needs cleaning of LS pipe end opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_14223\_23445.jpg



WS- slide gate in CMP riser on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	2.03	Rating **	M	Issue No.	48 (cont)
LM End	2.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.859601 °	38.859601 °
				-121.524885 °	-121.524885 °
DWR ID	22616				
Comment Code					
Inspector Comment					
FS_ID:14223 DS_ID:22616 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - pipe burried/submerged on LS- needs cleaning of LS pipe end opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013					

LM Start	<b>2.03</b>	Rating **	M	Issue No.	<b>48 (cont)</b>
LM End	<b>2.03</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14223\_23444.jpg



LS- concrete wing wall on levee toe

Photo 3 of 3 : UCIP\_FA\_2018\_14223\_23443.jpg



LS- pipe submerged/buried in concrete wing wall on levee toe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	2.05	Rating **	A/W	Issue No.	8
LM End	2.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.860002 °	38.860002 °
				-121.524873 °	-121.524873 °
DWR ID	DWR_RD1001_06_s_2012_8				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_8\_20180918\_00003.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	2.29	Rating **	U	Issue No.	49
LM End	2.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.863385 °	38.863385 °
				-121.524866 °	-121.524866 °
DWR ID	22622				
Comment Code					
Inspector Comment					
FS_ID:53424 DS_ID:22622 EP_NO: 12208 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 10/18/2018					

Photo 1 of 3 : UCIP\_FA\_2018\_53424\_23429.jpg



WS- large depression on levee berm

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	2.29	Rating **	U	Issue No.	49 (cont)	
LM End	2.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.863385 °		38.863385 °
				-121.524866 °		-121.524866 °
DWR ID	22622					
Comment Code						
Inspector Comment						
FS_ID:53424 DS_ID:22622 EP_NO: 12208 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 10/18/2018						

Photo 2 of 3 : UCIP\_FA\_2018\_53424\_23427.jpg



WS- pump and pipe on river bank

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	2.29	Rating **	U	Issue No.	49 (cont)
LM End	2.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.863385 °	38.863385 °
				-121.524866 °	-121.524866 °
DWR ID	22622				

**Comment Code**

**Inspector Comment**

FS\_ID:53424

DS\_ID:22622

EP\_NO: 12208

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue.

Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 10/18/2018

Photo 3 of 3 : UCIP\_FA\_2018\_53424\_23426.jpg



WS- large depression on levee berm at pipe daylight

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.03	Rating **	M	Issue No.	50
LM End	3.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.874217 °	38.874217 °
				-121.524807 °	-121.524807 °
DWR ID	22629				

**Comment Code**

**Inspector Comment**

FS\_ID:41674

DS\_ID:22629

EP\_NO: 2768

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 05/15/2013 Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 14-inch steel irrigation discharge pipe through the levee, 1.3 feet below the crown. Pump on the waterside (WS) toe removed. Gate valve on the WS slope removed. Pipe exposed on both slopes. Pipe discharges into a culvert on the landside (LS) toe which traverses under Pacific Avenue. (Removal and replacement of pump authorized under Permit No. 2768, 1958 - George N. Darrach).

[Additional Reference(s): DWR Levee Log, 1993].

FS Date: 5/15/2013

LM Start	<b>3.03</b>	Rating **	M	Issue No.	<b>50 (cont)</b>
LM End	<b>3.03</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_41674\_23382.jpg



WS- an abandoned pipe on levee slope

Photo 2 of 3 : UCIP\_FA\_2018\_41674\_23381.jpg



WS- an abandoned end capped pipe on levee slope

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

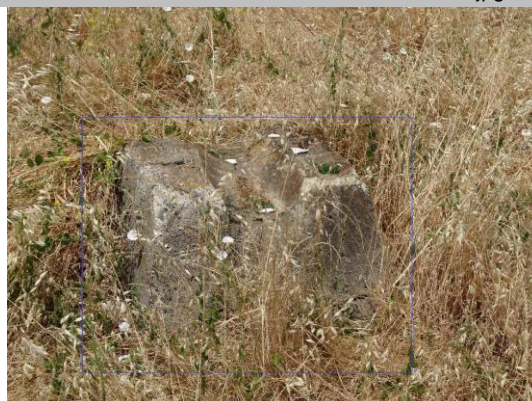
**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.03	Rating **	M	Issue No.	50 (cont)	
LM End	3.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.874217 °	38.874217 °	
				-121.524807 °	-121.524807 °	
DWR ID	22629					
Comment Code						
Inspector Comment						
FS_ID:41674 DS_ID:22629 EP_NO: 2768 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 1.3 feet below the crown. Pump on the waterside (WS) toe removed. Gate valve on the WS slope removed. Pipe exposed on both slopes. Pipe discharges into a culvert on the landside (LS) toe which traverses under Pacific Avenue. (Removal and replacement of pump authorized under Permit No. 2768, 1958 - George N. Darrach). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_41674\_23380.jpg



WS- concrete pipe support saddle.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

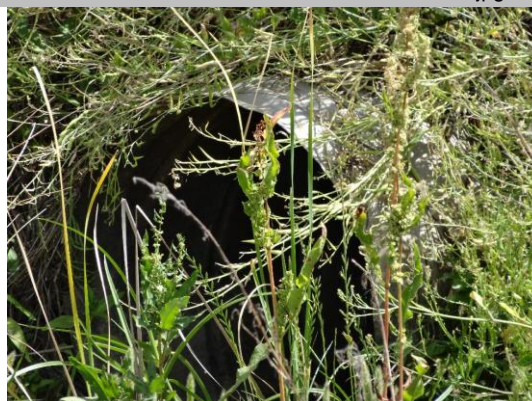
**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.28	Rating **	M	Issue No.	51
LM End	3.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.877706 °	38.877706 °
				-121.524787 °	-121.524787 °
DWR ID	22630				
Comment Code					
Inspector Comment					
FS_ID:14167 DS_ID:22630 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013					

LM Start	<b>3.28</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>3.28</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_14167\_23396.jpg



LS- vegetation on CMP end.

Photo 2 of 3 : UCIP\_FA\_2018\_14167\_23395.jpg



LS- CMP opens in irrigation ditch.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.28	Rating **	M	Issue No.	51 (cont)	
LM End	3.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.877706 °	38.877706 °	
				-121.524787 °	-121.524787 °	
DWR ID	22630					
Comment Code						
Inspector Comment						
FS_ID:14167 DS_ID:22630 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_14167\_23397.jpg



WS- slide gate in CMP riser on levee slope

LM Start	3.43	Rating **	M	Issue No.	52	
LM End	3.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.879960 °	38.879960 °	
				-121.524780 °	-121.524780 °	
DWR ID	22619					
Comment Code						
Inspector Comment						
FS_ID:13523						
DS_ID:22619						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/15/2013 - needs filling/plugging gap between 4-inch and 10-inch pipes. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 1 of 2: Capped 4-inch steel irrigation pipe sleeved through a 10-inch steel pipe, at an unknown depth. Pipe exposed just off the top of the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/15/2013						

Photo 1 of 2 : UCIP\_FA\_2018\_13523\_22121.jpg



WS- a 4-inch steel pipe sleeved through 10-inch steel pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.43	Rating **	M	Issue No.	52 (cont)	
LM End	3.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.879960 °	38.879960 °	
				-121.524780 °	-121.524780 °	
DWR ID	22619					
Comment Code						
Inspector Comment						
FS_ID:13523						
DS_ID:22619						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/15/2013 - needs filling/plugging gap between 4-inch and 10-inch pipes. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 1 of 2: Capped 4-inch steel irrigation pipe sleeved through a 10-inch steel pipe, at an unknown depth. Pipe exposed just off the top of the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/15/2013						

Photo 2 of 2 : UCIP\_FA\_2018\_13523\_22120.jpg



WS- gap between two pipes needs to be filled.

LM Start	3.59	Rating **	M	Issue No.	53
LM End	3.59	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.882247 °	38.882247 °
				-121.524762 °	-121.524762 °
DWR ID	22631				
Comment Code					
Inspector Comment					
FS_ID:13509 DS_ID:22631 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 Only a small section of head wall visible, almost burried. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013					

Photo 1 of 2 : UCIP\_FA\_2018\_13509\_22086.jpg



WS- fixed slide gate in CMP riser on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.59	Rating **	M	Issue No.	53 (cont)	
LM End	3.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.882247 °	38.882247 °	
				-121.524762 °	-121.524762 °	
DWR ID	22631					
Comment Code						
Inspector Comment						
FS_ID:13509 DS_ID:22631 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 Only a small section of head wall visible, almost buried. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 2 of 2 : UCIP\_FA\_2018\_13509\_22085.jpg



LS- almost burried concrete headwall. Only upper portion of the wall is visible.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.92	Rating **	U	Issue No.	54
LM End	3.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.887003 °	38.887003 °
				-121.524746 °	-121.524746 °
DWR ID	22632				

**Comment Code**

**Inspector Comment**

FS\_ID:53425

DS\_ID:22632

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/30/2018 Photos of the pipe failure, visible from the LS inlet, were uploaded. Crossing remains Urgent due to the deteriorated condition of the pipe. Recommend internal inspection through the levee. (O. Magana - DWR UCIP)10/18/2018 Unable to access the LS toe due to muddy conditions. Assume no repairs have been done to this crossing to date. This crossing is part of DWR's Deferred Maintenance Project (DMP). Based on the photos taken in 2013 and 2016 the pipe section through the wall has missing pipe sections due to heavy corrosion. Recommend repair to avoid further deterioration of pipe section through levee. Levee is about 8-10 feet high. Crossing remains Urgent based on the deteriorated condition of the pipe on the LS. (O. Magana - DWR UCIP)07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 10/19/2018 8:02:00 AM

LM Start	<b>3.92</b>	Rating **	U	Issue No.	<b>54 (cont)</b>
LM End	<b>3.92</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_53425\_22046.jpg



WS- slide gate, air vent in CMP riser on levee slope

Photo 2 of 3 : UCIP\_FA\_2018\_53425\_22045.jpg



LS- CMP in concrete head/wing wall outlet

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	3.92	Rating **	U	Issue No.	54 (cont)
LM End	3.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.887003 °	38.887003 °
				-121.524746 °	-121.524746 °
DWR ID	22632				

**Comment Code**

**Inspector Comment**

FS\_ID:53425  
DS\_ID:22632  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/30/2018 Photos of the pipe failure, visible from the LS inlet, were uploaded. Crossing remains Urgent due to the deteriorated condition of the pipe. Recommend internal inspection through the levee. (O. Magana - DWR UCIP)10/18/2018 Unable to access the LS toe due to muddy conditions. Assume no repairs have been done to this crossing to date. This crossing is part of DWR's Deferred Maintenance Project (DMP). Based on the photos taken in 2013 and 2016 the pipe section through the wall has missing pipe sections due to heavy corrosion. Recommend repair to avoid further deterioration of pipe section through levee. Levee is about 8-10 feet high. Crossing remains Urgent based on the deteriorated condition of the pipe on the LS. (O. Magana - DWR UCIP)07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993].  
FS Date: 10/19/2018 8:02:00 AM

Photo 3 of 3 : UCIP\_FA\_2018\_53425\_22044.jpg



LS- highly corroded and damaged CMP in concrete head/wing wall outlet

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.04	Rating **	A/W	Issue No.	7
LM End	4.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.888803 °	38.888803 °
				-121.524738 °	-121.524738 °
DWR ID	DWR_RD1001_06_s_2012_7				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_7\_20180918\_00002.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

LM Start	4.33	Rating **	A/W	Issue No.	19
LM End	4.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.892999 °	38.892999 °
				-121.524711 °	-121.524711 °
DWR ID	DWR_RD1001_06_f_2013_19				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_19\_20180918\_00005.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.36	Rating **	M	Issue No.	55
LM End	4.36	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.893448 °	38.893448 °
				-121.524719 °	-121.524719 °
DWR ID	22618				
Comment Code					
Inspector Comment					
FS_ID:41724					
DS_ID:22618					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 05/15/2013 - damaged head/wing wall in inlet structure. (P. Amatya - DWR UCIP)					
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity irrigation pipe through the levee, 15.9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterward slope. Pipe discharges into a large irrigation ditch on the west side of Pacific Avenue. (Joplin and South Sutter Water District). [Additional Reference(s): DWR Levee Log, 1993].					
FS Date: 5/15/2013					

Photo 1 of 3 : UCIP\_FA\_2018\_41724\_22034.jpg



WS- slide gate in CMP riser.

LM Start	<b>4.36</b>	Rating **	M	Issue No.	<b>55 (cont)</b>
LM End	<b>4.36</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_41724\_22033.jpg



WS- inlet wing wall with trashrack

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.36	Rating **	M	Issue No.	55 (cont)	
LM End	4.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.893448 °		38.893448 °
				-121.524719 °		-121.524719 °
DWR ID	22618					
Comment Code						
Inspector Comment						
FS_ID:41724						
DS_ID:22618						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/15/2013 - damaged head/wing wall in inlet structure. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity irrigation pipe through the levee, 15.9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterward slope. Pipe discharges into a large irrigation ditch on the west side of Pacific Avenue. (Joplin and South Sutter Water District). [Additional Reference(s): DWR Levee Log, 1993].						
FS Date: 5/15/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_41724\_22032.jpg



WS- inlet pipe with trashrack in a damaged wing wall

LM Start	4.38	Rating **	C	Issue No.	22
LM End	4.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.893728 °	38.893728 °
				-121.524715 °	-121.524715 °
DWR ID	DWR_RD1001_06_f_2016_22				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
A stump at the landside levee toe has been removed, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.48	Rating **	M	Issue No.	17
LM End	4.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.895234 °	38.895234 °
				-121.524514 °	-121.524514 °
DWR ID	DWR_RD1001_06_f_2017_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim tree limbs for access and visibility, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_17\_20180918\_00004.jpg



View looking upstream landside at trees that need to be trimmed for access and visibility.

LM Start	4.71	Rating **	M	Issue No.	24
LM End	4.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.896310 °	38.896310 °
				-121.520674 °	-121.520674 °
DWR ID	DWR_RD1001_06_f_2016_24				
Comment Code					
DE : Debris					
Inspector Comment					
Old peace of pipe still lying on landside levee slope, Fall 2018.					

Photo 1 of 2 : FA\_2018\_RD1001\_40\_24\_20181114\_00041.jpg



View of an old piece of pipe still lying on landside levee slope looking downstream. Fall 2018.

LM Start	<b>4.71</b>	Rating **	M	Issue No.	<b>24 (cont)</b>
LM End	<b>4.71</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_RD1001\_40\_24\_20180918\_00008.jpg



View of an old piece of pipe lying on landside levee slope looking upstream. Fall 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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